

What is claimed is:

1. A method for controlling a playback operation in an enhanced navigation media player device, the method comprising:

defining a plurality of operating states based on
5 coexisting operation modes of the enhanced navigation media player device, wherein in a first operation mode the device is configured to reproduce audio/video (A/V) data recorded on an enhanced navigation medium and in a second operation mode the device is configured to process additional data recorded on an
10 enhanced navigation medium or provided from a remote content provider; and

operating the device in at least one of the plurality of operating states, in response to user interfacing with the device to select said at least one of the plurality of operating states,
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2. The method of claim 1, wherein the plurality of operating states comprise at least one of N operating states based on said first and second operational modes.

20 3. The method of claim 2, wherein the first operational mode has X playback states associated with reproducing A/V data recorded on the enhanced navigation medium.

4. The method of claim 3, wherein the second operational
25 mode has Y operation states associated with processing additional

data data recorded on an enhanced navigation medium or provided by the remote content provider.

5. The method of claim 4, wherein $N = X \times Y$.

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6. The method of claim 3, wherein the first operational mode comprises at least one of play, still and stop playback states associated with reproduction of the A/V data.

10 7. The method of claim 4, wherein the second operational mode comprises at least one of play, idle, and stop display states associated with processing of the additional data.

8. The method of claim 1, wherein if the first operational
15 mode is in a play state and the second operational mode is in a play state, then the device plays back A/V data from the enhanced navigation medium and the device displays additional data received from the enhanced navigation medium or the remote content provider in association with the A/V data.

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9. The method of claim 1, wherein if the first operational mode is in a still state and the second operational mode is in a play state, then the device temporarily discontinues playing back A/V data and the device displays a still picture of a last A/V
25 data frame reproduced along with additional data received from the

enhanced navigation medium or the remote content provider in association with the A/V data.

10. The method of claim 1, wherein if the first operational
5 mode is in a stop state and the second operational mode is in a play state, then the device discontinues playing back A/V data and the device displays additional data received from the enhanced navigation medium or the remote content provider in association with the A/V data.

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11. The method of claim 10, wherein the device displays the additional data in full screen mode and no A/V data is displayed.

12. The method of claim 1, wherein if the first operational
15 mode is in a play state and the second operational mode is in an idle state, then the device plays back the A/V data and the device temporarily discontinues receiving additional data from the enhanced navigation medium or the remote content provider in association with the A/V data.

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13. The method of claim 1, wherein if the first operational mode is in a play state and the second operational mode is in an idle state, then the device plays back the A/V data and the device continues receiving additional data from the enhanced navigation
25 medium or the remote content provider in association with the A/V

data, and the device discontinues displaying the additional data.

14. The method of claim 12, wherein the device plays back A/V data in full screen mode.

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15. The method of claim 1, wherein if the first operational mode is in a still state and the second operational mode is in an idle state, then the device temporarily discontinues playing back the A/V data and the device temporarily discontinues receiving
10 additional data from the enhanced navigation medium or the remote content provider in association with the A/V data.

16. The method of claim 15, wherein the device displays a still image of the last A/V data displayed.

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17. The method of claim 1, wherein if the first operational mode is in a stop state and the second operational mode is in an idle state, then the device discontinues playing back the A/V data and the device temporarily discontinues receiving additional data
20 from the enhanced navigation medium or the remote content provider in association with the A/V data.

18. The method of claim 1, wherein if the first operational mode is in a play state and the second operational mode is in a
25 stop state, then the device plays back the A/V data and the device

discontinues receiving additional data from the enhanced navigation medium or the remote content provider in association with the A/V data.

5 19. The method of claim 18, wherein the device plays back the A/V data in full screen mode.

20. The method of claim 1, wherein if the first operational mode is in a pause state and the second operational mode is in a
10 stop state, then the device temporarily discontinues playing back the A/V data and the device discontinues receiving additional data from the enhanced navigation medium or the remote content provider in association with the A/V data.

15 21. The method of claim 1, wherein if the first operational mode is in a stop state and the second operational mode is in a stop state, then the device discontinues playing back the A/V data and the device discontinues receiving additional data from the enhanced navigation medium or the remote content provider in
20 association with the A/V data.

22. An enhanced navigation media player device comprising:
a playback engine; and
an enhanced navigation engine,
25 wherein a plurality of operating states are defined based

on coexisting operation modes of the playback engine and the enhanced navigation engine, wherein in response to user interaction, in a first operation mode the playback engine reproduces audio/video (A/V) data recorded on an enhanced navigation medium and in a second operation mode the enhance navigation engine processes additional data readout from the enhanced navigation medium or downloaded from a remote content provider.

10 23. The player of claim 22, wherein the plurality of operating states comprise at least one of N operating states based on said first and second operational modes associated with said playback and enhanced navigation engines, respectively.

15 24. The player of claim 23, wherein in the first operational mode the playback engine has X playback states associated with reproducing A/V data recorded on the enhanced navigation medium.

20 25. The player of claim 24, wherein in the second operational mode the enhance navigation engine has Y operation states associated with processing additional data readout from the enhanced navigation medium or downloaded from the remote content provider.

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26. The player of claim 25, wherein $N = X \times Y$.

27. The method of claim 24, wherein the first operational mode comprises at least one of play, still and stop playback
5 states associated with reproduction of the A/V data.

28. The player of claim 25, wherein the second operational mode comprises at least one of play, idle, and stop display states associated with processing of the additional data.

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29. A method for controlling playback of data recorded on an enhanced navigation medium, the method comprising:

initializing at least a first playback engine of an enhanced navigation device, when an enhanced navigation mode is selected;

15 entering a first playback state for at least the first playback engine, when an enhanced navigation engine preloads navigation information; and

controlling media playback operations, in response to user interaction with a user interface of the enhanced navigation
20 device;

wherein the enhanced navigation engine controls a plurality of playback states based on the user interaction with a plurality of user interfaces of the enhanced navigation device.

25 30. The method of claim 29, wherein the first playback

state is a stop state.